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RAW SEQUENCE LISTING

DATE: 02/05/2002

PATENT APPLICATION: US/10/046,935

TIME: 16:17:47

Input Set : D:\527c1.app

Output Set: N:\CRF3\02052002\J046935.raw

PS

4 <110> APPLICANT: Jiang, Yuqiu
 5 Harlocker, Susan L.
 6 Secrist, Heather
 7 Wang, Aijun
 8 Stolk, John A.

10 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 11 AND DIAGNOSIS OF COLON CANCER

14 <130> FILE REFERENCE: 210121.527C1

16 <140> CURRENT APPLICATION NUMBER: US/10/046,935

17 <141> CURRENT FILING DATE: 2002-01-15

19 <160> NUMBER OF SEQ ID NOS: 2239

21 <170> SOFTWARE: FastSEQ for Windows Version 4.0

23 <210> SEQ ID NO: 1

24 <211> LENGTH: 579

25 <212> TYPE: DNA

26 <213> ORGANISM: Homo sapiens

28 <220> FEATURE:

29 <221> NAME/KEY: misc_feature

30 <222> LOCATION: 454, 469, 558

31 <223> OTHER INFORMATION: n = A,T,C or G

33 <400> SEQUENCE: 1

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 35 atgaaggcag aaatgaatgg ctcaaaactt gggagaagag caaaacctga aggggccctc 120
 36 cagaacaatg atgggcttta tgatcctgac tgcgatgaga gcgggctctt taaggccaag 180
 37 cagtgcacg gcacctccat gtgctggtgt gtgaacactg ctggggctcag aagaacagac 240
 38 aaggacactg aaataacctg ctctgagcga gtgagaacct actggatcat cattgaacta 300
 39 aaacacaaag caagagaaaa accttatgat agtaaaagtt tgcggactgc acttcagaag 360
 40 gagatcaciaa cgcgttatca actggatcca aaatttatca cgagtatttt gtatgagaat 420
 41 aatgttatca ctattgatct ggttcaaaat tctnctcaa aaaactcana atgatgttgg 480
 42 acatagctga tgggtgctta ttatttttga aaaagatggt aaaggtgaat ccttgtttca 540
 43 ttctagaaaa tggacctnac agtaaatggg gaacaactg 579

45 <210> SEQ ID NO: 2

46 <211> LENGTH: 520

47 <212> TYPE: DNA

48 <213> ORGANISM: Homo sapiens

50 <220> FEATURE:

51 <221> NAME/KEY: misc_feature

52 <222> LOCATION: 380, 487

53 <223> OTHER INFORMATION: n = A,T,C or G

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 57 tttgcgtttg gtttacttgt ctgtcaaatg tttccttaaa catgaaactg aataaggaga 120
 58 agagtatttt taacacttaa atttcttggc aaatttttaa acatttttta gtctgtaata 180

ENTERED

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59 cactccactt gaagcactta agtcttcctt aaatgacttt tcttaagtaa tgatactgtg 240
 60 tgttttccca aagcactttt aaaaaaattt ttataaatta ctatctgttg aaaagggtgc 300
 61 cttttccttt cttctagtat ttttttctta ccaaaattca ctaatcttga atgtttgtga 360
 W--> 62 tattaaattc caaaatgcan gaatacttga ctcatTTTaa gctaaaaatt tgtaactga 420
 63 tttcaattat aattgtaatg gatttttttg actttgtaat ggattctttt tcatcaaaaa 480
 W--> 64 agccttnatt ttttttatct atgtggaaaa cacaataaaa 520
 66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 177
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Homo sapiens
 71 <220> FEATURE:
 72 <221> NAME/KEY: misc_feature
 73 <222> LOCATION: 9, 60, 61
 74 <223> OTHER INFORMATION: n = A,T,C or G
 76 <400> SEQUENCE: 3
 W--> 77 gtactttcng aagatgaaat atttataatg agttatggaa acaatgTTTT agaaatgTTn 60
 W--> 78 ntcttggtgt aatttaatgc agatttttac ctcaattttg ttaaaaaact tgataatttg 120
 79 atccctccat ctatttaata tttaatattt tcagattcta gagtatttaa aatttaa 177
 81 <210> SEQ ID NO: 4
 82 <211> LENGTH: 223
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Homo sapiens
 86 <220> FEATURE:
 87 <221> NAME/KEY: misc_feature
 88 <222> LOCATION: 18, 19, 64, 158, 167, 172, 173
 89 <223> OTHER INFORMATION: n = A,T,C or G
 91 <400> SEQUENCE: 4
 W--> 92 acaggacacc accccgannt gaagggcatt gcgaggggca ttggacctcc ccaccacta 60
 W--> 93 cagntaactc aagacaacat accatgctac aaagtcaccc cattaacaca tcttttccaa 120
 W--> 94 gtcaagacac tgccttacia atgaactcca agactatnga aatgatnaaa annaatcttg 180
 95 ttcaaatata cagtatctgc tattatagga aacatcaggg cgt 223
 97 <210> SEQ ID NO: 5
 98 <211> LENGTH: 414
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Homo sapiens
 102 <220> FEATURE:
 103 <221> NAME/KEY: misc_feature
 104 <222> LOCATION: 387
 105 <223> OTHER INFORMATION: n = A,T,C or G
 107 <400> SEQUENCE: 5
 108 acttttcggaa gatgaaatat ttataatgag ttatggaaac aatgTTTTag aaatgTTTT 60
 109 cttggtgtaa tttaatgcag atttttacct cgattttgtt aaaaaacttg ataatttgat 120
 110 cctccatct atttaatat taatatTTtc agattctaga gtatttaaaa tttaaacaca 180
 111 attataaaat taattataat tctacttat gttagctatg atttagggcc aaaactaccc 240
 112 tggTTTTgtc ttgcaacttg aaacattgtg tattttaaac tatataattt gggaacatta 300
 113 ttttatagac tgtggataac caaatataag atttgtgatt tttaatgctt catttTgtga 360
 W--> 114 aaatcatttg tatattctat ttatagnatg caatttttct agctcattaa aagt 414
 116 <210> SEQ ID NO: 6
 117 <211> LENGTH: 408

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118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <222> LOCATION: 367
124 <223> OTHER INFORMATION: n = A,T,C or G
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127 acctgtccca gccacaggct tcttgtccac ctcttctccc ctgccacca gctgctcagc 60
128 gcataagacc ttcccgcacag gctctgcgtg tgcagctctc tgcgtccctc ctgggccctc 120
129 cagcgtcaga cactaatggg agttcccgag atgctcgggt ttgagcaggg agcaggcaga 180
130 gctgcagtca gagacattag aaaaccagtc tgaattgggt ctgtctttga gatgccagg 240
131 ccagcagaaa gcagtcaga agtattgttg ctcatggtgt ggcaatggac tgaactgtaa 300
132 tgaaaatgtt atttaattct tgtctctgta ttttgatact tgaatgactt tcccttttgt 360
133 tttactncat ataaaattgt taatctgtct gattttgtct gaattata 408
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 489
137 <212> TYPE: DNA
138 <213> ORGANISM: Homo sapiens
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: 364
143 <223> OTHER INFORMATION: n = A,T,C or G
145 <400> SEQUENCE: 7
146 acaaaaaataa acagacattt atttccagac ttatctttta cataagttaa atacacattt 60
147 gtctgaggca ctgaaacatt cgcatacaca acccaaattc ccaggttttg tcagcagatc 120
148 aatgtttaata acaaatcaag tttttttttt aaaaaaaca gtgaacagtg ttttatacaa 180
149 gcatattgac tatttctttc ttaaccttaa acattctaaa cgtaaaattg taaagaagat 240
150 tctcctgagt tatctttaat gatatttatt tcatcttctc cctcttccca aaagaaaatt 300
151 tttttcaatt atttatataa atactattat ctgtaatcag cgtttgattt aaaaatatta 360
152 aaanccca gaagcatcca cagatccctc aaaacatttt aaaaggtcag ttttatggca cattcaggct 420
153 gaagcatcca cagatccctc aaaacatttt aaaaggtcag ttttatggca cattcaggct 480
154 aatgagaca 489
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 195
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 8
162 accattggtg gccaatgat ttgatggtaa gggagggatc gttgacctcg tctgttatgt 60
163 aaaggatgcg tagggatggg agggcgatga ggactaggat gatggcgggc aggatagtct 120
164 agacggtttc tatttcttga gcgtctgaga tgtagtatt agttagtatt gttgtgagt 180
165 ttaggaaaag ggcgt 195
167 <210> SEQ ID NO: 9
168 <211> LENGTH: 499
169 <212> TYPE: DNA
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 9
173 acaatttctt tatattcttc cttggtgata tctttatttt ggtaaaatgg cttgatggcc 60
174 aattttacct cttgtgctgc ttttcttga atttgcaatt tctgatgaga agaaaatgta 120
175 taatttatta tttgccagtc atactgctct caaaaaatcc caaacaagaa attgaaaata 180

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176 cttcatatattt acaataagag actctccaac tattaacgtg acaaataataa aacagtttat 240
177 ttactaaaac atatcaaaca tttctaaaaa caattataaa atattaccag taattttactg 300
178 gacatcaaca catctagaga gaatccttca aataataatg gcatttagac agccaataag 360
179 aaattccctt caccactcat acaataaaaa gctgatattt tttctccttt atcatataca 420
180 gaattatgaa ggttgctctc aaccttgaac ttgccttgtc tgtcttcgag ctatctgcgc 480
181 tggttccac tgcaacact 499
183 <210> SEQ ID NO: 10
184 <211> LENGTH: 539
185 <212> TYPE: DNA
186 <213> ORGANISM: Homo sapiens
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190 cattataaga tgcagaactt tttaatgttt tctggtcctt gaaaattcaa tagggccaaa 120
191 tgcattaact ggaaatagca ttttttttaa gtcttaataa aagatgataa tggataaaac 180
192 aactatatag gctctcatal acaatctttc ttaattttca ccttgtaaga aatgattaca 240
193 atgtccttca ggcttggtat acacccccac agaatacaaga agaaagccaa caaagaattg 300
194 aacatttcaa caagctagga aatattttact gtaagcatat tgtgaaattc tggaagacat 360
195 actatcaata ctttgggaaa acactattaa catgtgttga agaaggcagt ttataaatga 420
196 aacattacaa atcttatgtt tatgcataca acttataaaa tagaaaaaag ctgctatttt 480
197 tccaatagta tagcatcaca ctaacactat atagttaaga ttgaaaactt ctgtacctc 539
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200 <211> LENGTH: 318
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 11
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206 aatgatgggc tttatgatcc tgactgcgat gagagcgggc tctttaaggc caagcagtgc 120
207 aacggcacct ccatgtgctg gtgtgtgaac actgctgggg tcagaagaac agacaaggac 180
208 actgaaataa cctgctctga gcgagtgaac acctaactgga tcatcattga actaaaacac 240
209 aaagcaagag aaaaacctta tgatagtaaa agtttgcgga ctgcacttca gaaggagatc 300
210 acaacgcgtt atcaactg 318
212 <210> SEQ ID NO: 12
213 <211> LENGTH: 168
214 <212> TYPE: DNA
215 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 12
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219 tggtaatatata accaatgttt tcaaagtgtat tctgtcatal aaagagcaga tttttattga 120
220 acttgtgcaa taactatatt accatacaat ataaatattc atgaatag 168
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 410
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 13
228 acattaaatg ataatgtttg aagatcacac aaagatttca caaaactata actaatacag 60
229 aaagatgtgt gaaaacatta ggggctttca aaattttagg tatggaattt tgcaaagatt 120
230 attttggctt ataagtgtta ggcaatcact aacctgaaat aagtgacaaa aacatgcaga 180
231 tgattaccat ttcaacaaat gaaaagctat aaatgtctag ctaaaagcta aaatattgtg 240
232 tagctgaaat actaccatat aacaatggga atttataaaa caggaaaaaa ggttatttctt 300

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233 taaaagtctt ccattgagtaa tagactttca gtaattttct ataaaaacat tcagaaatta 360
234 agttttctcaa attatgttta tcaccaaatt tatgttttca gtagtgactg 410
236 <210> SEQ ID NO: 14
237 <211> LENGTH: 374
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
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244 gcaatggaga gagggcagaa ggggtgtagaa gctgaagggg tctagaagct tactcctgag 180
245 tttcttcctt ctgtcttcaa atctttactt cttatggcca aagaccagc tgtttcatag 240
246 gctggagatg cactcttcta gactgctcga gacagccaga gacaggggag gagggaagaa 300
247 ggatactgtg gaaagggatg gcggggcaaa catttagagc tagaagccac tactgggcca 360
248 atgctaaagt ttct 374
250 <210> SEQ ID NO: 15
251 <211> LENGTH: 403
252 <212> TYPE: DNA
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 15
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257 ggggcagctg aagttatcaa ggaattttt gggcctctgc ttagtgaaac acaaaggaac 120
258 aaagcagcta taaactaaat agaatgaac tatctgctt tcttatgctg accactggag 180
259 tccatgggtg caagtagaga gctgctctag gttcttgagg tttggtttct attattaatt 240
260 tttagggatg gggcactgtg caaagactcc atagctgtgc ctaggagtct aggaaaagtg 300
261 acagaggctt ggctttttta cctttagttc agccaagtca ttttcaagtc ctgagaaatg 360
262 acatcatctt caggataaaa taatgaggac attagacaaa cca 403
264 <210> SEQ ID NO: 16
265 <211> LENGTH: 494
266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
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271 ggggtgaaca ttcggagatt gctcaacggg agcatcgtgg tcaagaacga tgtcatcctg 120
272 gaggcagact acactttaga gtatgaggaa ctgtttgaaa acctggcaga gattgtaaag 180
273 gccaaagatta tgaatgaaac tagaacaact cttcttgatc ctgattcctg cagaaaggcc 240
274 atactgtgct atagtgaaga ggacactttc gtggattcat cgggtgactcc gggctttgac 300
275 ttccaggagc aatgcacca gaaggtgcc gaaggatata ccagttcta ctatgtggat 360
276 gtcttgatg ggaagctggc ctgtgtgaac aagtgcacca aaggaacgaa gtcgcaaagt 420
277 aactgtaacc tgggcacctg tcagctgcaa cgcagtggcc cccgctgcct gtgcccgaat 480
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281 <211> LENGTH: 478
282 <212> TYPE: DNA
283 <213> ORGANISM: Homo sapiens
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: 15, 293, 348, 354, 361, 372, 388, 437, 438, 440, 465
288 <223> OTHER INFORMATION: n = A,T,C or G
290 <400> SEQUENCE: 17

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→ The cleavage for Xba has been detected in the Sequence Listing.
 In the Sequence Listing to form a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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Input Set : D:\527c1.app

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L:16 M:270 C: Current Application Number differs, Wrong Format
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
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L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
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L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
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L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

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L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51